

05 January 2015

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## City & Guilds

### 600/6881/4 City & Guilds Level 2 Diploma in Mechanical Engineering

#### Who is this qualification for?

This qualification is aimed at you if you are looking to combine general education with an introduction to theory and practical activities related to the broad Engineering sector. There are no specific requirements for this qualification.

#### What will the student study as part of this qualification?

You will study three compulsory topics:

- working in engineering
- principles of engineering technology
- principles of manufacturing technology

You will then select three optional topics which include:

- machining components using milling techniques
- machining components using turning techniques
- using bench fitting techniques
- using computer aided manufacturing processes
- assembling and maintaining fluid power systems

#### What knowledge and skills will the student develop as part of this qualification and how might these be of use and value in further studies?

Knowledge and skills developed as part of the qualification include:

- Health and Safety requirements within engineering and effective communication
- using hand, machine and computer controlled methods of manufacture
- maintenance activities and terminology
- physical and mechanical properties of materials
- how electronic systems are used in engineering products.



These skills and knowledge will be of value in further studies, including an apprenticeship, a Level 3 fulltime specialist qualification, or A levels which can help you to higher education.

### **Why choose this qualification over other similar qualifications?**

City & Guilds offers two different sizes of engineering technical awards that incorporate common core mandatory units.

The Level 2 Certificate in Mechanical Engineering is a smaller qualification which enables you to gain an introduction to engineering theory and covers some practical skills.

The Level 2 Diploma in Mechanical Engineering will take longer to study and would be beneficial if you wanted to specifically understand more about the use of hand tools (bench fitting) and machining techniques (milling and turning) which are used in manufacturing components from a variety of materials.

### **Which subjects will compliment this course?**

A range of GCSEs including English and Mathematics, and others such as physics and chemistry.

### **THIS IS INTENDED FOR USE AS A LEVEL 2 TECHNICAL AWARD**

Further information can be found on our website and within the qualification handbook:

[http://cdn.cityandguilds.com/ProductDocuments/Engineering/Mechanical/2850/2850\\_Level\\_2/Centre\\_documents/2850-40-41\\_L2\\_Qualification\\_handbook\\_v1.pdf](http://cdn.cityandguilds.com/ProductDocuments/Engineering/Mechanical/2850/2850_Level_2/Centre_documents/2850-40-41_L2_Qualification_handbook_v1.pdf)